FIG. 1

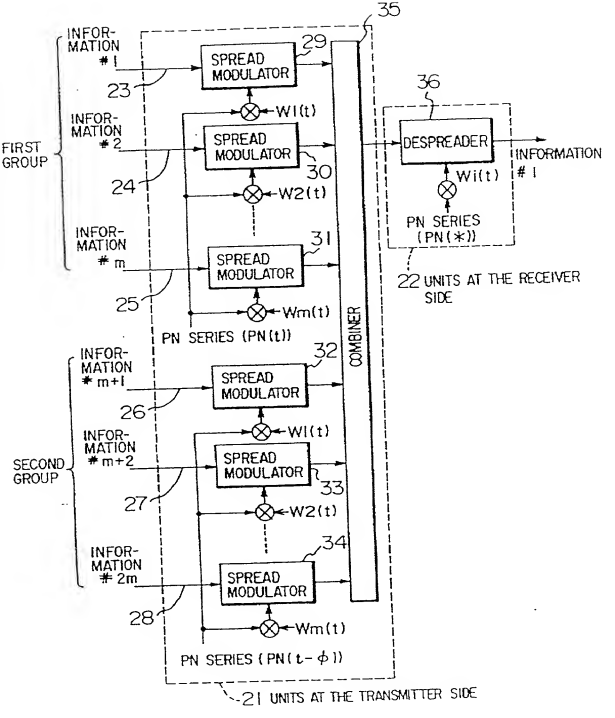
35
INFOR-MATION # 1
SPREAD MODULATOR
29
23
W1(t)
INFOR-MATION # 2
FIRST GROUP
SPREAD MODULATOR
30
24
W2(t)
INFOR-MATION # m
SPREAD MODULATOR
31
25
Wm(t)
PN SERIES (PN(t))
INFOR-MATION # m+1
SPREAD MODULATOR
32
26
W1(t)
INFOR-MATION # m+2
SECOND GROUP
SPREAD MODULATOR
33
27
W2(t)
INFOR-MATION # 2m
SPREAD MODULATOR
34
28
Wm(t)
PN SERIES (PN(t-φ))
COMBINER
21 UNITS AT THE TRANSMITTER SIDE
36
DESPREADER
INFORMATION # 1
Wi(t)
PN SERIES (PN(*))
22 UNITS AT THE RECEIVER SIDE

FIG. 2

CHANNEL NUMBER	ORTHOGONAL SPREAD CODE	⊗	PN SERIES → SPREAD CODE	
# 1	W1(t)	⊗	PN(t)	FIRST GROUP
# 2	W2(t)	⊗	PN(t)	
⋮	⋮	⋮	⋮	
# m	Wm(t)	⊗	PN(t)	
# (m+1)	W1(t)	⊗	PN(t−φ)	SECOND GROUP
# (m+2)	W2(t)	⊗	PN(t−φ)	
⋮	⋮	⋮	⋮	
# (2m)	Wm(t)	⊗	PN(t−φ)	

FIG. 3 PRIOR ART

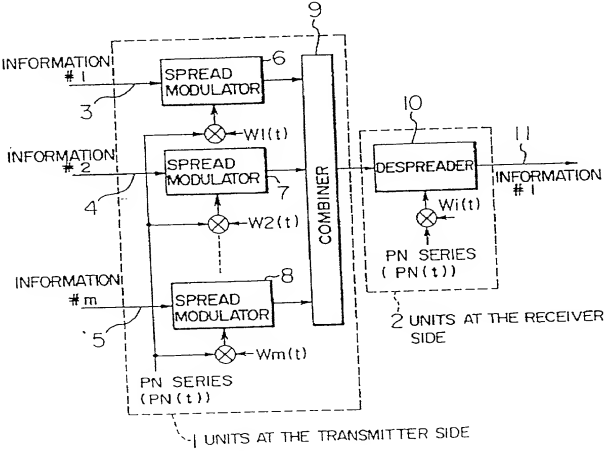

FIG. 4
PRIOR ART

CHANNEL NUMBER	ORTHOGONAL SPREAD CODE	⊗	PN SERIES	← SPREAD CODE
#1	W1(t)	⊗	PN(t)	
#2	W2(t)	⊗	PN(t)	
⋮	⋮		⋮	
#m	Wm(t)	⊗	PN(t)	

FIG. 5
PRIOR ART

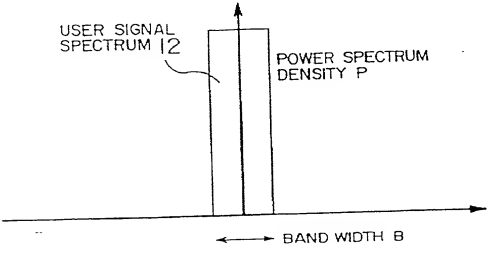

FIG. 6
PRIOR ART

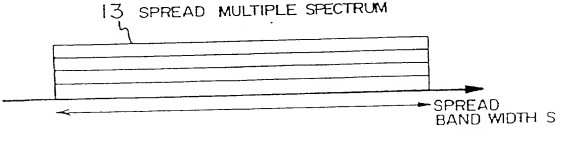

FIG. 7
PRIOR ART

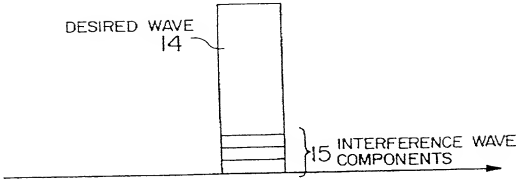

FIG. 8

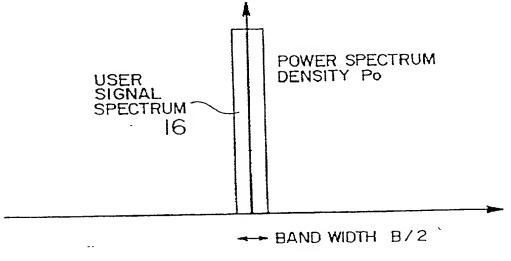

FIG. 9

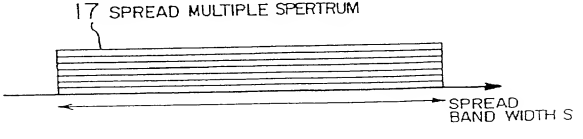

FIG. 10